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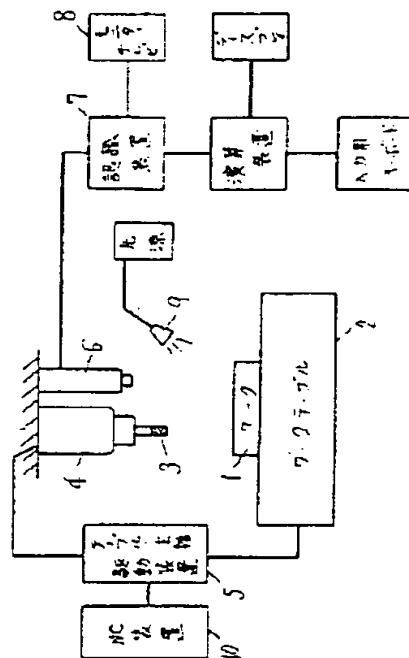
APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : UEDA HIDEJI;

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TITLE : NC MACHINE TOOL

D6



ABSTRACT : PURPOSE: To measure a work in a high accuracy on a machine and to perform even a dimensional correction as it is as occasion demands, by equipping a measuring means which moves synchronously with the tool part of a machine tool and measures the shape positional relation of a work by automatic recognition with noncontact.

CONSTITUTION: A work 1 is placed on a work table 2 and a main shaft 4 fitted with a tool 3 at the tip is faced to the work 1 upper part. The work table 2 and main shaft 4 are driven by a driving device 5, a camera 6 is fitted at the main shaft base and the camera 6 is synchronized with the main shaft of a tool part. The picture image obtained through the camera 6 is displayed on a monitor TV 8 with its being automatically recognition processed by a recognition device 7 and a shape positional dimension is found therefrom. Since the work subjected to machining can be measured in a high accuracy as it is on a machine, the necessary dimensional correction can be performed as it is, as a result, a highly accurate work can be obtained in a short time.

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